

	Mitral stenosis	Mitral regurgitation	Aortic stenosis	Aortic regurgitation
1 st HS	Loud Lub ↑ in strength as under pressure	↓ 1 st HS Quiet or absent	Normal	Normal
2 nd HS	A louder due to pulm. hypertension P normal	Normal	Dub ↓	Dub ↑
3 rd HS	None	Possibly due to build up of regurgitated Lub da dub	None	None
4 th HS	Not present in AF due to missing atrial contraction	None	Maybe due to hypertrophy of ventricles	Maybe
Added sounds	Opening snap	Not usually Mitral valve prolapse occasionally.	Systolic click (especially in children)	None
Murmur	Low pitched Rumbling Mid-diastolic murmur Heard at apex with bell Heard after slight exertion with patient positioned on left side listening in expiration Sounds like wheelbarrow; bumpy-bumpy-bump	High pitched Blowing Pan systolic Heard at apex with diaphragm Conducted to axilla	Harsh Systolic ejection crescendo decrescendo systolic murmurs Heard in aortic area and conducted to carotids Left carotid louder than right Sounds like a buzzy bee	High pitched Blowing Early diastolic murmur Heard at LSE with pt leaning forward in expiration and holding breath Sounds like breath sounds even though pt is breath holding.